

Title (en)

LINK COMPONENT WITH OIL HOLE

Title (de)

VERBINDUNGSKOMPONENTE MIT ÖLBOHRUNG

Title (fr)

COMPOSANT DE LIAISON AVEC TROU D'HUILE

Publication

EP 3748175 A1 20201209 (EN)

Application

EP 18903086 A 20180131

Priority

JP 2018003092 W 20180131

Abstract (en)

A link component (150) with an oil hole (150E) is attached to a crankshaft (106) of an internal combustion engine (E), and the oil hole (150E) allows communication from an outside to the crankshaft (106) side. The oil hole (150E) has an inclined surface (150F) along an opening rim on the crankshaft (106) side. A surface other than the oil hole (150E) has a carbon concentration of 0.5 wt% or more. The inclined surface (150F) has a carbon concentration within a range of 0.7 wt% or more and 0.9 wt% or less. Production cost is suppressed, and at the same time, damage is prevented by increasing resistance of the oil-hole part on which stress is liable to concentrate.

IPC 8 full level

F16C 7/02 (2006.01); **C23C 8/22** (2006.01); **F02B 75/04** (2006.01); **F02B 75/32** (2006.01)

CPC (source: EP US)

C23C 8/20 (2013.01 - EP); **C23C 8/22** (2013.01 - EP US); **C23C 8/80** (2013.01 - EP US); **F01M 11/02** (2013.01 - US); **F02B 75/04** (2013.01 - US); **F02B 75/045** (2013.01 - EP); **F02B 75/048** (2013.01 - EP); **F02B 75/32** (2013.01 - US); **F16C 5/00** (2013.01 - EP); **F16C 7/023** (2013.01 - US); **F16C 33/1045** (2013.01 - EP); **F01M 2001/066** (2013.01 - EP); **F01M 2011/027** (2013.01 - EP); **F16C 2202/02** (2013.01 - US); **F16C 2202/04** (2013.01 - EP US); **F16C 2204/64** (2013.01 - EP US); **F16C 2204/66** (2013.01 - US); **F16C 2223/12** (2013.01 - EP US); **F16C 2226/60** (2013.01 - EP); **F16C 2240/54** (2013.01 - EP); **F16C 2240/60** (2013.01 - EP); **F16C 2360/22** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 18903086 A 20180131; CN 201880088299 A 20180131; JP 2018003092 W 20180131; JP 2019568456 A 20180131; MX 2020007290 A 20180131; US 201816965400 A 20180131